



Learning DevOps: Continuously Deliver Better Software

By Joakim Verona, Michael Duffy, Paul Swartout

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Learn to use some of the most exciting and powerful tools to deliver world-class quality software with continuous delivery and DevOps

About This Book

- Get to know the background of DevOps so you understand the collaboration between different aspects of an IT organization and a software developer
- Deploy top-quality software and ensure software maintenance and release management with this practical guide
- This course covers some of the most exciting technology available to DevOps engineers, and demonstrates multiple techniques for using them
- Real-world and realistic examples are provided to help you as you go about the implementation and adoption of continuous delivery and DevOps

Who This Book Is For

This course is for developers who want to understand how the infrastructure that builds today's enterprises works, and how to painlessly and regularly ship quality software.

What You Will Learn

- Set up and familiarize yourself with all the tools you need to be efficient with DevOps
- Design an application that is suitable for continuous deployment systems with DevOps in mind
- Test the code using automated regression testing with Jenkins Selenium
- Managing the lifecycle of hosts, from creation to ongoing management using Puppet Razor
- Find out how to manage, use, and work with Code in the Git version management system
- See what traps, pitfalls, and hurdles to look out for as you implement

continuous delivery and DevOps

In Detail

Harness the power of DevOps to boost your skill set and make your IT organization perform better. If you're keen to employ DevOps techniques to better your software development, this course contains all you need to overcome the day-to-day complications of managing complex infrastructures the DevOps way.

Start with your first module – Practical DevOps - that encompasses the entire flow from code from testing to production. Get a solid ground-level knowledge of how to monitor code for any anomalies, perform code testing, and make sure the code is running smoothly through a series of real-world exercise, and develop practical skills by creating a sample enterprise Java application.

In the second module, run through a series of tailored mini-tutorials designed to give you a complete understanding of every DevOps automation technique. Create real change in the way you deliver your projects by utilizing some of the most commendable software available today. Go from your first steps of managing code in Git to configuration management in Puppet, monitoring using Sensu, and more.

In the final module, get to grips with the continuous delivery techniques that will help you reduce the time and effort that goes into the delivery and support of software.

This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products:

- Practical DevOps by Joakim Verona
- DevOps Automation Cookbook by Michael Duffy
- Continuous Delivery and DevOps : A Quickstart Guide - Second Edition by Paul Swartout

Style and approach

This course is an easy to follow project based guide for all those with a keen interest in deploying world-class software using some of the most effective and remarkable technologies available.

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Editorial Review

About the Author

Joakim Verona

Joakim Verona is a consultant with a specialty in Continuous Delivery and DevOps. He has worked with all aspects of systems development since 1994. He has actively contributed as the lead implementer of complex multilayered systems such as web systems, multimedia systems, and mixed software/hardware systems. His wide-ranging technical interests led him to the emerging field of DevOps in 2004, where he has stayed ever since. Joakim completed his masters in computer science at Linkoping Institute of Technology. He has also worked as a consultant in a wide range of assignments in various industries, such as banking and finance, telecom, industrial engineering, press and publishing, and game development. He is also interested in the Agile field and is a certified Scrum master, Scrum product owner, and Java professional.

Michael Duffy

Michael Duffy is a technology consultant who spends far too much of his time getting excited about automation tools. Michael lives in a tiny village in Suffolk and when he isn't reading, writing, or playing with automation and infrastructure tools, he can be found spending as much time as he can with his family. He runs his own consultancy, Stunt Hamster Ltd, and spends a lot of time telling clients that DevOps is an approach rather than a job title. Stunt Hamster Ltd. has provided services to clients as large as Telefonica O2 and BskyB and is currently working on software to ease the pain of managing decentralized platforms. Michael has previously written Puppet Reporting and Monitoring, published by Packt Publishing.

Paul Swartout

Paul Swartout has spent over 20 years working in the IT industry. Starting out as a developer with a small software house, he has filled a number of roles over the years, including software engineer, system administrator, project manager, program manager, operations manager, scrum master, Agile coach, and software development manager. He has worked across a number of different industries and sectors?from supply chain through manufacturing, education, and retail to entertainment?and within organizations of various sizes, from start-ups to multinational corporates. He is passionate about software and how it is delivered. Since he first encountered Agile over a decade ago, he has been committed to the adoption and implementation of Agile techniques and approaches to improve the efficiency, output, and lives of everyone involved in software development. Over the past few years, he has been heavily involved in the CD and DevOps movement, from heading the team within Nokia that implemented said ways of working to blogging, presenting, authoring, and evangelizing to whoever is in earshot. He strongly believes that CD and DevOps add massive value to the way software is delivered, and he wants to ensure as many people realize this as possible. Paul lives in a small seaside town in the southwest of the UK with his wife, daughters, and two small yapping things. He is a software development manager and Agile coach working for Microsoft,

based in the MixRadio team in Bristol in the UK. He has also worked on Continuous Delivery and DevOps: A Quickstart Guide. You can contact Paul and find out what he's up to via www.swartout.co.uk.

Users Review

From reader reviews:

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